

## Section 1A

DSR Number: 019-05-049 R

Project Number: CFD-1 and Late

Section 1B Sponsor

NRCS Entry Only

Eligible: YES X NO \_\_\_\_\_

Approved: YES X NO \_\_\_\_\_

Funding Priority Number (from Section 4) 12

Limited Resource Area: YES NO X

Address: 2841 Goss Road

City/State/Zip: Lake Charles, LA 70611

Telephone Number: 337-855-4388 Fax: 337-855-4388

County: Calcasieu Parish

State: LA

Congressional District: 06

Latitude: Start: N 30.325    End: N30.3132    Longitude: Start: W 93.18328    End: W 93.1732

Section: 3 Township: 9 S. Range: 8 W. and Section: 33 and 34, Township: 8 S. Range: 8 W.

UTM Coordinates:

Drainage Name: CFD-1 and Laterals CFD-1B and CFD-1C    Reach: Cascio Rd. to confluence with lateral CFD-1 in Moss Bluff

4,300 LF

Damage Description: Trees, branches and other debris in channel causing blockage and increased flooding to homes

All answers in this Section must be YES in order to be eligible for EWP assistance.

Site Eligibility	YES	NO	Remarks
Damage was a result of a natural disaster?*	X		Hurricane Rita wind and storm damage
Recovery measures would be for runoff retardation or soil erosion prevention?*	X		Reduce upstream flooding , streambank erosion, and scour erosion
Threat to life and/or property?*	X		Reduce flooding upstream of channel blockage where homes and school is located
Event caused a sudden impairment in the watershed?*	X		Hurricane deposited debris in channel that will likely cause flooding after next major rainfall event
Imminent threat was created by this event?**	X		Flood damage to homes and school likely after next major rainfall event.
For structural repairs, not repaired twice within ten years?***	X		No evidence of repairs to pipes culverts or roads in past several years
<b>Site Defensibility</b>			
Economic, environmental, and social documentation adequate to warrant action? (Go to pages 3, 4, 5 and 6 ***)	X		See attached documentation
Proposed action technically viable? (Go to Page 9 ***)	X		See attached documentation

Have all the appropriate steps been taken to ensure that all segments of the affected population have been informed of the EWP program and its possible effects? YES ☒ NO ☐

Comments:

\* Statutory

## \*\* Regulation

\*\*\* DSR Pages 3 through 6 and 9 are required to support the decisions recorded on this summary page. If additional space is needed on this or any other page in this form, add appropriate pages. 1 of 14

Approved 7/2005

### Section 1E Proposed Action

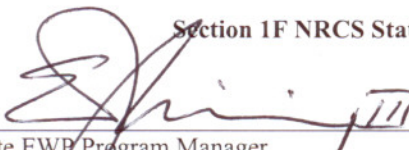
Describe the preferred alternative from Findings: Section 5 A:

Remove downed trees, branches and other debris from one side of channel and haul debris from site to land fill

Total installation cost identified in this DSR: Section 3: 66,270<sup>00</sup> <sup>BAS 12/15/05</sup> ~~\$108,200~~

### Section 1F NRCS State Office Review and Approval


Reviewed By:

  
State EWP Program Manager

Date Reviewed:

11/28/05

Approved By:

  
State Conservationist

Date Approved:

11/29/05

### PRIVACY ACT AND PUBLIC BURDEN STATEMENT

NOTE: The following statement is made in accordance with the Privacy Act of 1974, (5 U.S.C. 552a) and the Paperwork Reduction Act of 1995, as amended. The authority for requesting the following information is 7 CFR 624 (EWP) and Section 216 of the Flood Control Act of 1950, Public Law 81-516, 33 U.S.C. 701b-1; and Section 403 of the Agricultural Credit Act of 1978, Public Law 95-334, as amended by Section 382, of the Federal Agriculture Improvement and Reform Act of 1996, Public Law 104-127, 16 U.S.C. 2203. EWP, through local sponsors, provides emergency measures for runoff retardation and erosion control to areas where a sudden impairment of a watershed threatens life or property. The Secretary of Agriculture has delegated the administration of EWP to the Chief or NRCS on state, tribal and private lands.

Signing this form indicates the sponsor concurs and agrees to provide the regional cost-share to implement the EWP recovery measure(s) determined eligible by NRCS under the terms and conditions of the program authority. Failure to provide a signature will result in the applicant being unable to apply for or receive a grant the applicable program authorities. Once signed by the sponsor, this information may not be provided to other agencies. IRS, Department of Justice, or other State or Federal Law Enforcement agencies, and in response to a court or administrative tribunal.

The provisions of criminal and civil fraud statutes, including 18 U.S.C. 286, 287, 371, 641, 651, 1001; 15 U.S.C. 714m; and 31 U.S.C. 3729 may also be applicable to the information provided. According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0578-0030. The time required to complete this information collection is estimated to average 117/1.96 minutes/hours per response, including the time for reviewing instructions, searching existing data sources, field reviews, gathering, designing, and maintaining the data needed, and completing and reviewing the collection information.

### USDA NONDISCRIMINATION STATEMENT

"The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.)

Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination write USDA, Director of Civil Rights, 1400 Independence Avenue, SW, Washington, DC 20250-9410 or call (800)795-3272 (voice) or (202)720-6382 (TDD). USDA is an equal opportunity provider and employer.

### Civil Rights Statement of Assurance

The program or activities conducted under this agreement will be in compliance with the nondiscrimination provisions contained in the Titles VI and VII of the Civil Rights Act of 1964, as amended; the Civil Rights Restoration Act of 1987 (Public Law 100-259); and other nondiscrimination statutes: namely, Section 504 of the Rehabilitation Act of 1973, Title IX of the Amendments of 1972, the Age Discrimination Act of 1975, and the Americans with Disabilities Act of 1990. They will also be in accordance with regulations of the Secretary of Agriculture (7 CFR 15, 15a, and 15b), which provide that no person in the United States shall on the grounds of race, color, national origin, gender, religion, age or disability, be excluded from participation in, be denied the benefits of, or otherwise subjected to discrimination under any program or activity receiving Federal financial assistance from the U.S. Department of Agriculture or any agency thereof.

## Section 2 Environmental Evaluation

2A Resource Concerns	2B Existing Condition	2C Alternatives and Effects		
		Proposed Action	No Action	Alternative
		Remove tree logs and debris from one side of channel and haul to landfill	Leave tree logs and debris in channel	Remove tree logs and debris from both sides of channel
		2D Effects of Alternatives		
Soil				
Bank Erosion	Stable except for exposed soil around uprooted trees on stream bank	Cause temporary increase in bank erosion from removal of root mass and construction activities on one side of channel. Long term stabilization of banks from reduced flooding and re-establishment of vegetation	Erosion from root mass will stabilize, but increased upstream flooding will cause additional bank erosion and undercutting	Cause temporary increase in bank erosion from removal of root mass and construction activities on both sides of channel. Long term stabilization of banks from reduced flooding and re-establishment of vegetation
Compaction	No compaction	Heavy equipment will cause moderate soil compaction at access points on one side of channel	No compaction	Heavy equipment will cause some soil compaction at access points on both sides of channel
Water				
Flooding	Property upstream of debris blockage is subject to damages from flooding after next heavy rainfall event	Upstream flooding will be reduced and damages to property will be minimized from heavy rainfall events	Property upstream of debris blockage will continue to be subject to damages from next heavy rainfall event	Upstream flooding will be reduced and damages to property will be minimized from heavy rainfall events
Inadequate outlets	Debris is blocking outlets	Outlets will be opened, capacities will be increased and flooding will be reduced	Debris will continue to accumulate and further reduce outlet capacities	Outlets will be opened, capacities will be increased and flooding will be reduced
Excessive Sediments and turbidity	Stream flow is minimal and no sediment problems will occur until next heavy rainfall event. Water in stream is clear above and becomes more turbid in downstream reaches	Disturbance from heavy equipment and remove of root mass will cause short term increase in sediment and turbidity, but will reduce long term impacts by reducing sediments and turbidity caused by flooding	Sediments and turbidity will increase as a result of stream bank erosion and scour damage following next heavy rainfall event	Disturbance from heavy equipment and remove of root mass will cause short term increase in sediment and turbidity, but will reduce long term impacts by reducing sediments and turbidity caused by flooding
Stream health (including SVAP))	3.8 (Poor Conditions)	4.2 (Poor Conditions)	3.8 (Poor Conditions)	4.0 (Poor Conditions)
Air				
Particulate Matter less than PM 10	No particulate matter is being generated by debris in channel	Will cause slight increase in particulate matter as result of equipment and removal, but will remain below 10mm and return to pre-removal conditions after work is completed	No change in particulate matter	Will cause slight increase in particulate matter as result of equipment and removal, but will remain below 10mm and return to pre-removal conditions after work is completed
Plant				
Productivity, Health and Vigor of Riparian Vegetation	Riparian vegetation (especially trees) have been broken or blown down as result of wind. Natural regeneration will occur in areas where the canopy has been opened to sunlight	Some standing trees along one side of channel and some fallen trees will be removed for heavy equipment access and hauling out debris. Natural regeneration will occur in areas where the canopy has been opened to sunlight following debris removal	No trees will be disturbed by removal. Natural regeneration will occur in areas where the canopy has been opened to sunlight	Some standing trees along both sides of channel and some fallen trees will be removed for heavy equipment access and hauling out debris. Natural regeneration will occur in areas where the canopy has been opened to sunlight following debris removal
Productivity, Health and Vigor of Stream Aquatic	Aquatic plants are limited to filamentous algae and phytoplankton due to	Removal of debris will not significantly impact aquatic vegetation. Some	Stream aquatic growth will be the same as existing condition with excessive	Removal of debris will not significantly impact aquatic vegetation. Some

Vegetation	limited water in the stream and poor water quality. Very little rooted submergent or emergent vegetation.	decrease in algae from improved flow and slight increase in submergent vegetation with clearer water conditions following removal	algae growth and limited submergent vegetation	decrease in algae from improved flow and slight increase in submergent vegetation with clearer water conditions following removal
<b>Animal</b>				
Inadequate Cover/Shelter for Stream Fisheries (also see SVAP under resource concerns for water)	Abundant fish cover and shelter is provided by downed trees, branches, and other debris in the stream channel and by overhanging canopy. Hurricane debris contributed to the amount of available cover. Stream is ephemeral and	Hurricane deposited debris will be removed and result in less instream cover and reduced shading from overhanging cover on the access side of channel, but adequate amounts will remain. Water quantity will remain as the most limiting factors, water quality for fisheries will slightly improve	Fish cover and shelter provided by downed trees, branches, and overhanging canopy will remain the same as existing conditions. Water quality and quantity will remain the most limiting factors for fisheries	Hurricane deposited debris will result in less instream cover and reduced shading from overhanging branches on both sides of channel, but adequate amounts will remain. Water quantity will remain as a limiting factor and water quality for fisheries will slightly improve
Inadequate Cover/Shelter for Wildlife along Stream Corridor	Riparian forest buffers are extensive in undeveloped segments of the stream channel. Buffers and travel corridors are limited in areas of urban development	There will be a slight reduction in cover along one side of the channel where some trees and cover will be removed for access in the forested areas. There will be no impact in the urban areas that are already devoid of cover	Extensive riparian forest buffers will remain in undeveloped segments of the stream channel. Buffers and travel corridors will remain limited in areas of urban development	There will be a reduction in cover along both sides of the channel where some trees and cover will be removed for access in the forested areas. Regeneration will restore cover in short amount of time. There will be no impact in the urban areas that are already devoid of cover
<b>Other</b>				
Aesthetics	Interspersed trees and natural areas in proximity to homes results in fairly attractive landscape except for impacts of tree and property damage	Access will reduce the amount of forest cover on one side of channel in forested segments, but will not have a noticeable impact on the overall urban environment.	The landscape will remain the same except for any changes that may be caused by flooding	Access will reduce the amount of forest cover on both sides of channel in forested segments, but will not have a noticeable impact on the overall urban environment.
<b>Mosquito and Insect Vectors</b>	There are a few small pools of stagnant water that provide habitat for mosquitos.	The number of stagnant pools providing habitat for mosquito will be reduced.	The stagnant pools providing habitat for mosquitos will remain the same or increase following flooding	The number of stagnant pools providing habitat for mosquito will be reduced.



**Section 2E Special Environmental Concerns**

Resource Consideration	Existing Condition	Alternatives and Effects		
		Proposed Action	No Action	Alternative
Clean Water Act Waters of the U.S.	Poor Water Quality, Low DO, High BOD	Improved water quality. CWA 404 Permit required. Water Quality Certification possible.	Decreased water quality. Increased blockage and flooding	Improved water quality. CWA 404 Permit required. Water Quality Certification possible.
Coastal Zone Management Areas	N/A	N/A	N/A	N/A
Coral Reefs	N/A	N/A	N/A	N/A
Cultural Resources	Use FOTG guidance. State level review needed	Same as existing	Same as existing	Same as existing
Endangered and Threatened Species	Use FOTG guidance USFWS/LDWF list shows species in parish, but none are likely in project area	No impacts	No impacts	No impacts
Environmental Justice	Not a factor in this project area	Not a factor in this project area	Not a factor in this project area	Not a factor in this project area
Essential Fish Habitat	No essential fish habitat within this project area	No essential fish habitat within this project area	No essential fish habitat within this project area	No essential fish habitat within this project area
Fish and Wildlife Coordination	No stream modification proposed	Will coordinate if issues arise in CWA 404 permit application process	N/A	Will coordinate if issues arise in CWA 404 permit application process
Floodplain Management	Project boundary is within 100 year floodplain	Improve drainage and reduce level of flooding to pre hurricane conditions	N/A	If selected, project will improve drainage and reduce level of flooding to pre-storm conditions
Invasive Species	Chinese Tallow trees along channel in several segments	Will remove some invasive trees at access locations and allow increased control opportunities	Will likely increase	Will remove some invasive trees at access locations and allow increased control opportunities
Migratory Birds	Provides habitat for neotropical migrants	Slightly reduce habitat for neotropical migrants where trees are removed	Continue to provide same level of habitat	Slightly reduce habitat for neotropical migrants where trees are removed
Natural Areas	Use FOTG guidance. No natural areas identified in project area	Use FOTG guidance. No natural areas identified in project area	Use FOTG guidance. No natural areas identified in project area	Use FOTG guidance. No natural areas identified in project area
Prime and Unique Farmlands	Use FOTG guidance and soil survey. Gy soil occurs in project area Gy soil project area, but not prime in urban area	Gy soil occurs in project area, but not prime when in urban area	Gy soil occurs in project area, but not prime when in urban area	Gy soil occurs in project area, but not prime when in urban area
Riparian Areas	Downed timber has reduced and altered forested riparian habitat	Some standing timber will be removed at access points on one side of channel. Will restore naturally	Downed timber and altered forest riparian area will remain until natural process restores habitat	Some standing timber will be removed at access points on both side of channel. Will restore naturally
Scenic Beauty	Use FOTG guidance. Downed timber has reduced aesthetics of stream and riparian areas	Stream aesthetics will be restored, Riparian habitat will not be noticeably impacted	Downed timber in stream and along riparian areas will continue to reduce aesthetics.	Stream aesthetics will be restored, Riparian habitat will not be noticeably impacted
Wetlands	Downed timber and debris has altered wetland functions and values	Removal of debris will restore nature wetland functions and values to pre-storm conditions	Wetland functions and values will remain altered.	Removal of debris will restore nature wetland functions and values to pre-storm conditions
Wild and Scenic Rivers	Use FOTG guidance. No listed streams affected by project	No impact on listed streams or rivers	No impact on listed streams or rivers	No impact on listed streams or rivers

Completed By: Steve Tully, BiologistDate: 10/21/2005

DSR NO: 019-05-049R

**Section 2F Economic**

**This section must be completed by each alternative considered (attach additional sheets as necessary).**

	Future Damages (\$)	Damage Factor (%)	Near Term Damage Reduction
Properties Protected (Private)			
Residences N of You Winn Rd along and			
W of Georgia Rd – 50 houses	\$3,750,000	25	\$937,500
Properties Protected (Public)			
Business Losses			
Other			
Total Near Term Damage Reduction \$			\$937,500
Net Benefit (Total Near Term Damage Reduction minus Cost from Section 3)			\$829,300

Completed By: David Williams

Date: 10/22/05

*871,230*  
*345 12/15/05*

**Section 2G Social Consideration****This section must be completed by each alternative considered (attach additional sheets as necessary).**

	<b>YES</b>	<b>NO</b>	<b>Remarks</b>
Has there been a loss of life as a result of the watershed impairment?		X	
Is there the potential for loss of life due to damages from the watershed impairment?	X		
Has access to a hospital or medical facility been impaired by watershed impairment?		X	
Has the community as a whole been adversely impacted by the watershed impairment (life and property ceases to operate in a normal capacity)	X		Flooded area impact could cause detours to result on critical thoroughfares in the area most notably Ryan Street.
Is there a lack or has there been a reduction of public safety due to watershed impairment?	X		Access to residences by emergency personnel (Fire, police, ambulance) would be limited if future flooding occurs due to watershed impairment.

Completed By: David Williams Date: 10/21/05

DSR NO: 019-05-049R

**Section 2G Social Consideration**

**This section must be completed by each alternative considered (attach additional sheets as necessary).**

	<b>YES</b>	<b>NO</b>	<b>Remarks</b>
Has there been a loss of life as a result of the watershed impairment?		X	
Is there the potential for loss of life due to damages from the watershed impairment?		X	
Has access to a hospital or medical facility been impaired by watershed impairment?		X	
Has the community as a whole been adversely impacted by the watershed impairment (life and property ceases to operate in a normal capacity)	X		Pollution from trailer park waste treatment plant could contaminate water supply
Is there a lack or has there been a reduction of public safety due to watershed impairment?	X		Access to residences by emergency personnel (Fire, police, ambulance) would be limited if future flooding occurs due to watershed impairment.

Completed By: David Williams Date: 10/21/05



**Section 2H Group Representation and Disability Information****This section is completed only for the preferred alternative selected.**

Group Representation	Number
American Indian/Alaska Native Female Hispanic	0
American Indian/Alaska Native Female Non-Hispanic	0
American Indian/Alaska Native Male Hispanic	0
American Indian/Alaska Native Male Non-Hispanic	0
Asian Female Hispanic	0
Asian Female Non-Hispanic	0
Asian Male Hispanic	0
Asian Male Non-Hispanic	0
Black or African American Female Hispanic	0
Black or African American Female Non-Hispanic	17
Black or African American Male Hispanic	0
Black or African American Male Non-Hispanic	11
Hawaiian Native/Pacific Islander Female Hispanic	0
Hawaiian Native/Pacific Islander Female Non-Hispanic	1
Hawaiian Native/Pacific Islander Male Hispanic	0
Hawaiian Native/Pacific Islander Male Non-Hispanic	0
White Female Hispanic	9
White Female Non-Hispanic	70
White Male Hispanic	
White Male Non-Hispanic	73
Total Group	171

Census tract(s) 22.04Completed By: David Williams Date: 10/22/05



Section 2I. Required consultation or coordination between the lead agency and/or the RFO and another governmental unit including tribes:

Easements, permissions, or permits:

Access to channel from private properties will require easements/permission to be obtained by sponsor.

404 PERMIT REQUIRED

CWA permit and Water Quality certification possibly needed because of potential of grubbing stumps.

Mitigation Description:

Access will be from one side of channel. Access should be from east side of channel from starting point down to Goos Rd. where there is an existing right of way road. Access will vary from east side to west side in areas downstream from Goos Rd. depending on location of houses. Debris will be removed from project area and disposed of in an approved landfill. Proposed action will restore hydraulic function to downstream wetlands and eliminate stagnant pools in channel, reducing vector/disease potential. Action will be completed without interruption to reduce impact to wildlife.

Agencies, persons, and references consulted, or to be consulted:

Corps of Engineers, New Orleans District and LA DEQ

## Section 4 NRCS EWP Funding Priority

Complete the following section to compute the funding priority for the recovery measures in this application  
(see instructions on page 10).

Priority Ranking Criteria	Yes	No		Ranking Number Plus Modifier
1. Is this an exigency situation?	X			1e
2. Is this a site where there is serious, but not immediate threat to human life?		X		
3. Is this a site where buildings, utilities, or other important infrastructure components are threatened?	<del>X</del>			
4. Is this site a funding priority established by the NRCS Chief?	<del>X</del>	X		
<b>The following are modifiers for the above criteria</b>			<b>Modifier</b>	
a. Will the proposed action or alternatives protect or conserve federally-listed threatened and endangered species or critical habitat?				
b. Will the proposed action or alternatives protect or conserve cultural sites listed on the National Register of Historic Places?				
c. Will the proposed action or alternatives protect or conserve prime or important farmland?				
d. Will the proposed action or alternatives protect or conserve existing wetlands?				
e. Will the proposed action or alternatives maintain or improve current water quality conditions?				2e
f. Will the proposed action or alternatives protect or conserve unique habitat, including but not limited to, areas inhabited by State-listed species, fish and wildlife management area, or State identified sensitive habitats?				

Enter priority computation in Section 1A, NRCS Entry, Funding Priority Number.

Remarks:

General water quality will be improved over entire reach. Adjacent wetlands will be restored and maintained.

**Section 5A Findings****Finding: Indicate the preferred alternative from Section 2 (Enter to Section 1E):**

*I have considered the effects of the action and the alternatives on the Environmental Economic, Social; the Special Environmental Concerns; and the extraordinary circumstances (40 CFR 1508.27). I find for the reasons stated below, that the preferred alternative:*

X Has been sufficiently analyzed in the EWP PEIS (reference all that apply)

Chapter 5.2.2.1.2

Chapter \_\_\_\_\_

Chapter \_\_\_\_\_

Chapter \_\_\_\_\_

Chapter \_\_\_\_\_

\_\_\_\_\_ May require the preparation of an environmental assessment or environmental impact statement.  
The action will be referred to the NRCS State Office on this date:

NRCS representative of the DSR team

Title: Stephen Tully

Date: 10/21/05

**Section 5B Comments:****Section 5C****Sponsor Concurrence:****Sponsor Representative**

Title: FOREMAN

Date: 11-17-05

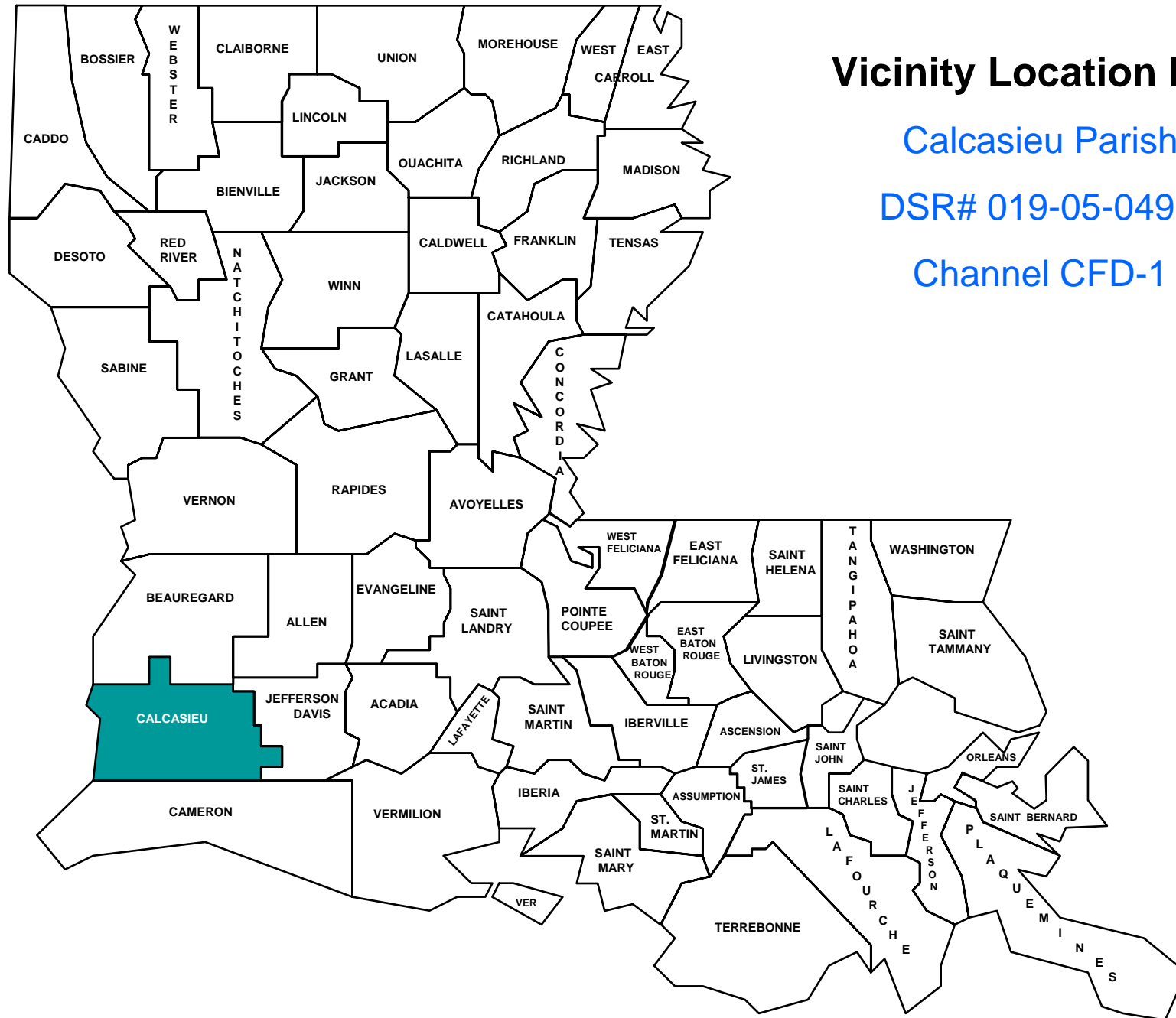
**Section 6 Attachments:**

- A. Location Map
- B. Site Plan or Sketches
- C. Other (explain)

## SECTION 6

### ATTACHMENTS





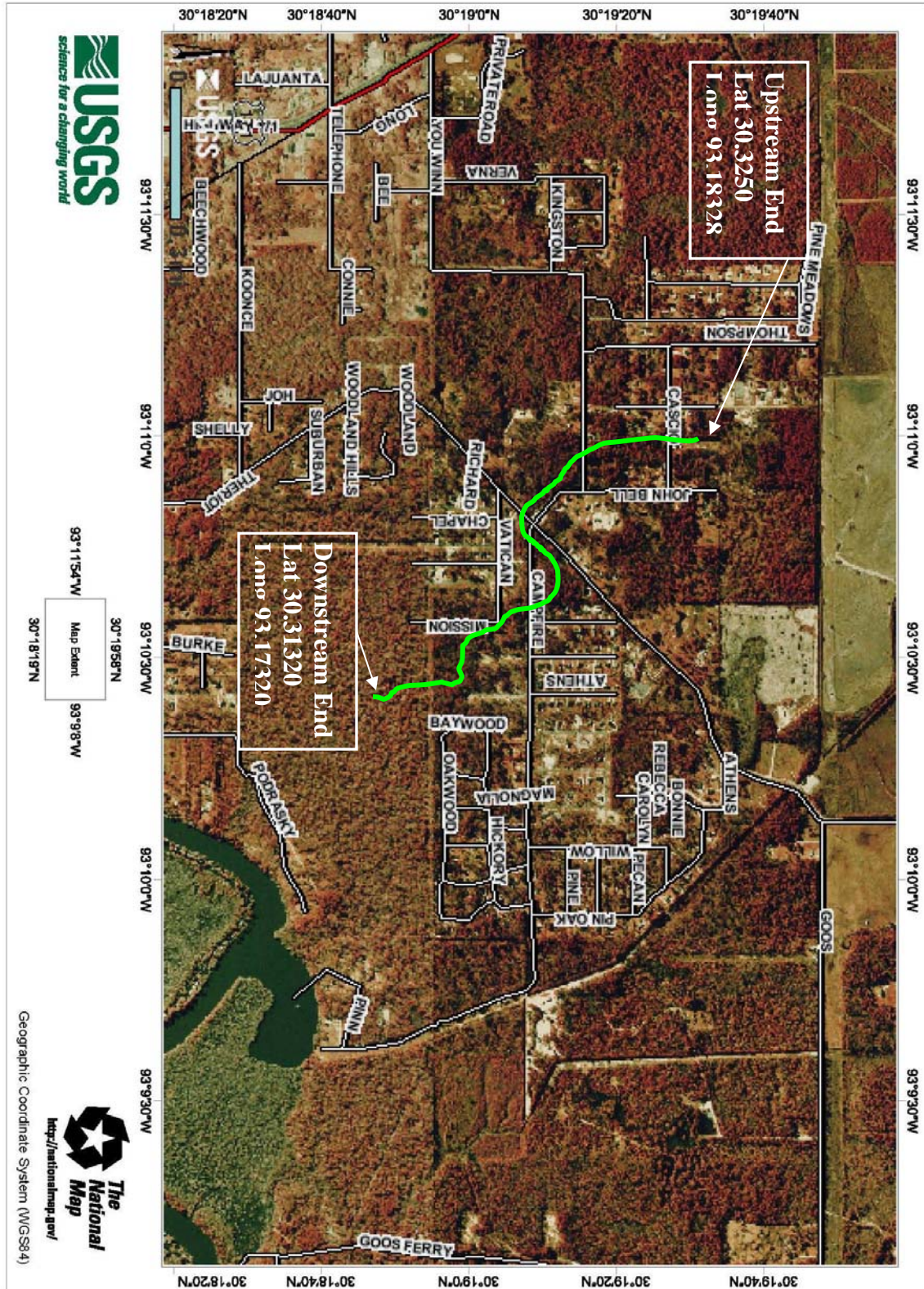
## Vicinity Location Map

Calcasieu Parish

DSR# 019-05-049R

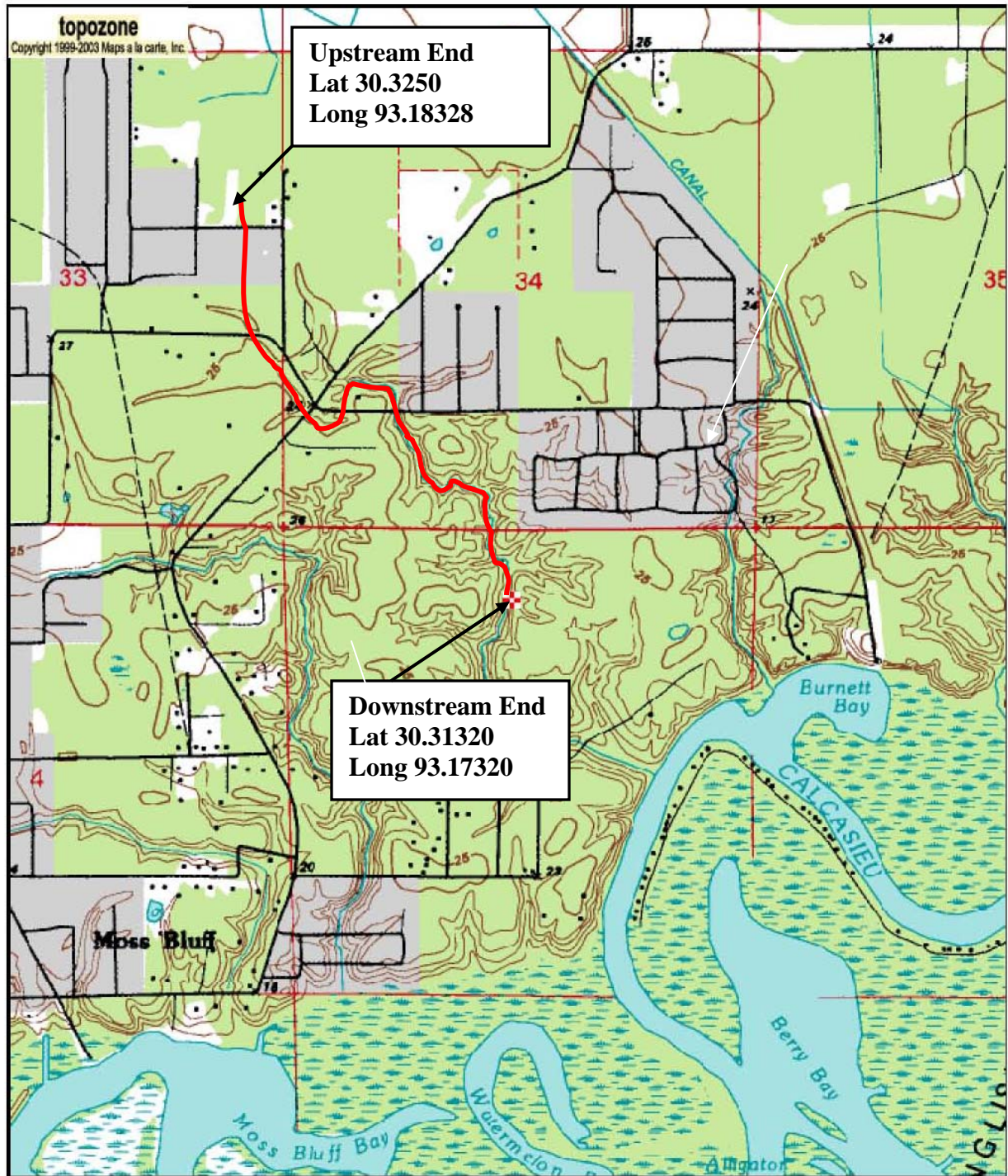
Channel CFD-1

SITE MAP  
DSR 019-05-049R  
Channel CFD-1  
Calcasieu Parish  
Estimated Reach Length 6,300 LF





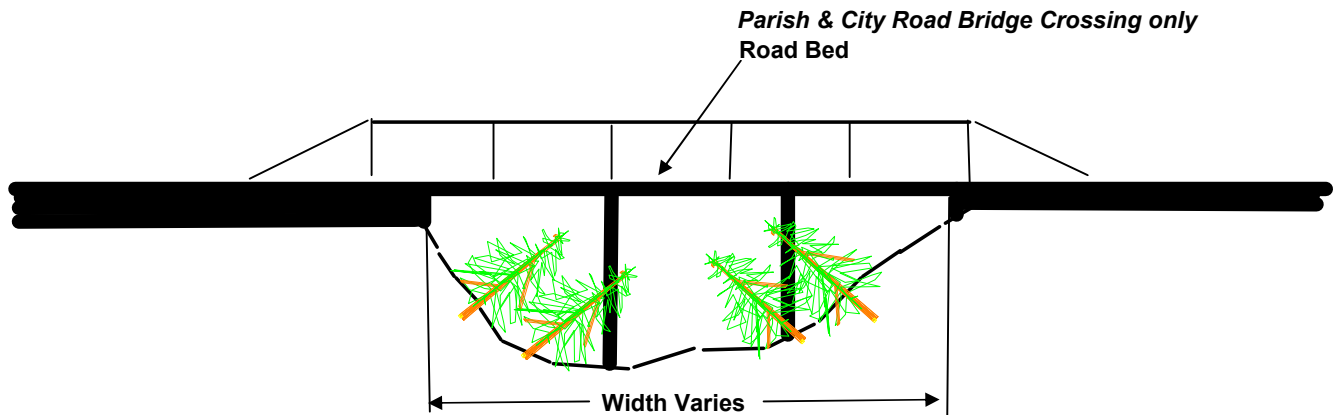
TOPO MAP  
DSR 019-05-049R  
Channel CFD-1  
Calcasieu Parish  
Estimated Reach Length 6,300 LF



0 0.3 0.6 0.9 1.2 1.5 km  
0 0.2 0.4 0.6 0.8 1 mi  
Map center is 30.3132°N, 93.1732°W (WGS84/NAD83)  
**Moss Bluff** quadrangle  
Projection is UTM Zone 15 NAD83 Datum

M=2.649  
G=-0.087  
3 of 6

## Debris Removal



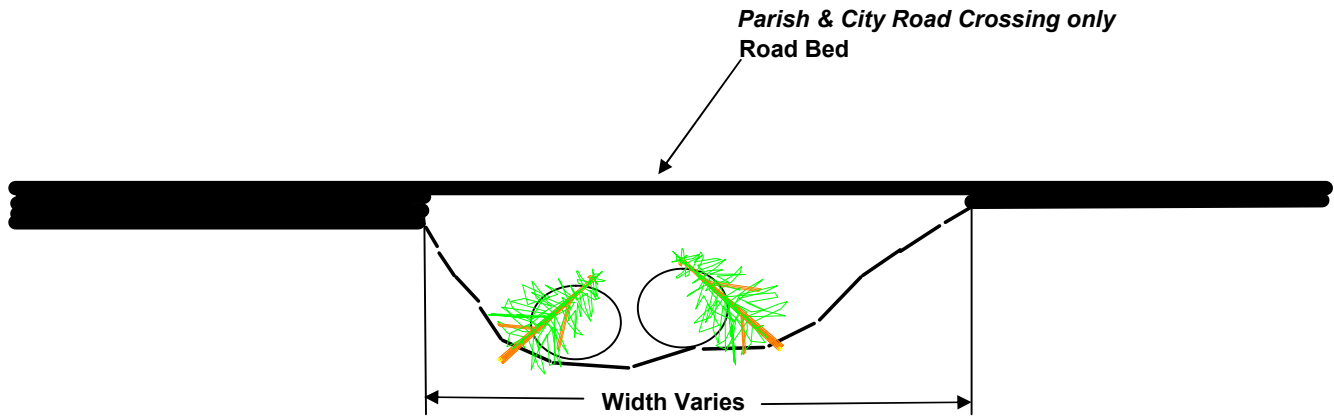
**Note:** Contract is to remove Debris from upstream and downstream Bridge which includes underside of bridge

**Exception:** All Crossing which cross State or Federal highways are not included in contract

## Typical Road Bridge Crossing Not to Scale

Notice:  
48 Hours Before Digging  
Call 1-800-272-3020

## Debris Removal

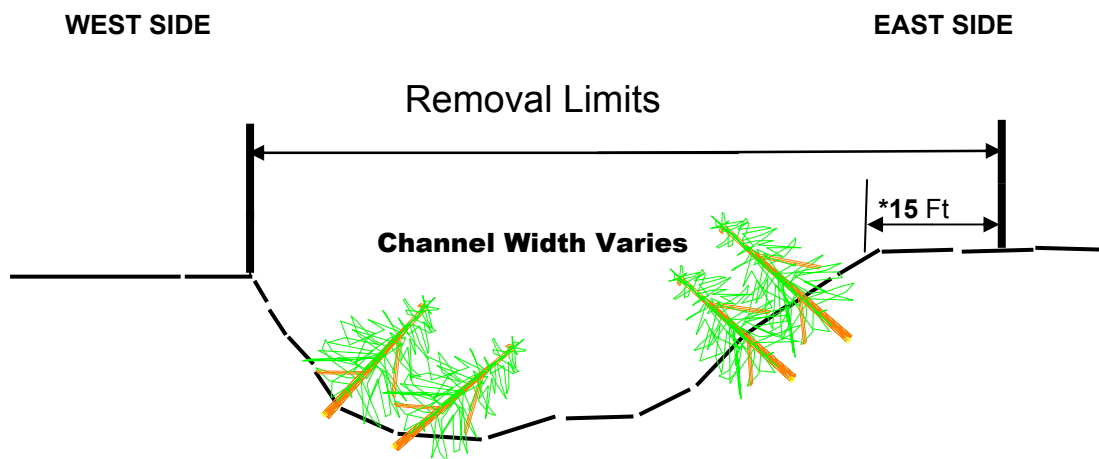


**Note:** Contract is to remove Debris from upstream and downstream Culverts which includes inside of culverts  
**Exception:** All Crossing which cross State or Federal highways are not included in contract

## Typical Road Culvert type Crossing Not to Scale

Notice:  
48 Hours Before Digging  
Call 1-800-272-3020

## Debris Removal



### Typical Section Not to Scale

**Notice:**  
**48 Hours Before Digging**  
**Call 1-800-272-3020**

***\*Note:** Work from east side only, except in locations where structures do not permit as concurred in by the COTR*

***Exception** it may be possible that trees which were located outside of the the rightaway may have fallen into the right of way, these trees will be remove which may be located outside of the right of way.*



DSR No: 019-05-49R

Selected Alternative

Calcacieu Parish  
Channel CFD-1 and Laterals CFD-  
B & CFD-C near Goos Rd @  
Campfire Rd

## Section 5 Engineering Cost Estimate Worksheet

Completed By: David Williams (Adjusted No. of Segments - RBM 11/01/05)

Date: 22-Oct-05

## Type of Work:

Debris Removal

## Location of Work:

Township(s)

8S

Range(s)

8W

Section(s)

3, 33, 34

Quadrangle(s)

Moss Bluff NE

## Channel CFD-1

Latitude	Longitude	Latitude	Longitude	Latitude	Longitude
30.31320	-93.17320				
30.32500	-93.18328				

Downstream Start:

Upstream End:

Estimated Length of Work Segment (ft):

3,500

(Debris obstruction is not continuous over reach)

≈ 6,300 TOTAL REACH LENGTH

Item No.	Proposed Recovery Measure	Quantity	Units	Unit Cost	Amount
1	Mobilization & Demobilization	1	LS	\$10,000.00	\$10,000
2	Channel Obstruction Removal	6,300	LF	8.90	\$56,070
3	Seeding, Sprigging and Mulching	1	AC	\$200.00	\$200
4					\$0
5					\$0

Note: Estimated cost of debris removal includes labor and hauling of material to landfill.

Total Estimated Construction Cost

\$108,200

\$64,270

## Performance Time:

Production Rate

1000 Ft/Day  
500

Segment Length

3,500 Ft  
6,300

Production Time

3.50 Days  
12.6

Contract Time

4 Days  
13

## Estimated Cost of Equipment with Labor

(Per Mike Kennedy's Email 09/22/04)

Description of Work: Heavy / ACCESS PROBLEMS FROM NOTES; HOWEVER USED AV. MEDIUM COST/LF OF 8.90

Cost per LF

\$28.00  
8.90

## Estimated Cost of Seeding with Labor

Segment Length

3,500 Ft.

Segment Width

15 Ft.

No. of Segment

1

Acres

1

Cost per Ac

\$200

Total Cost

\$200

## Comments:

Selected alternative is to remove debris from one side of channel and haul debris away from flood plain.  
Access from east side of channel from upper end to Goos Rd. Access segments along Campfire Rd from Campfire Rd.  
Access segment south of Campfire Rd to d/s from east side of channel. Use existing access path between Cascio Rd and 500' north of Goos Rd.

CHANGES BY TBS 12/15/05 - APPLIED "HEAVY" EST TO 3,500 FT LENGTH

PREFERRED

Calcasieu Parish

Channel CFD-1 and Laterals CFD-B & CFD-C near Goos Rd @ Campfire Rd

DSR No: 019-05-49R

Selected Alternative

55 Comb

Section 5 Engineering Cost Estimate Worksheet

Completed By: David Williams

Date: 22-Oct-05

Type of Work: Debris Removal

Location of Work:

Township(s)

Range(s)

Section(s)

Quadrangle(s)

8S

8W

3, 33, 34

Moss Bluff NE

Channel CFD-1

	Latitude	Longitude	Latitude	Longitude	Latitude	Longitude
Downstream Start:	30.31320	-93.17320				
Upstream End:	30.32500	-93.18328				

Estimated Length of Work Segment (ft):

3,500

(Debris obstruction is not continuous over reach)

~ 6,300

TOTAL REACH LENGTH

Item No.	Proposed Recovery Measure	Quantity	Units	Unit Cost	Amount
1	Mobilization & Demobilization	1	LS	\$10,000.00	\$10,000
2	Channel Obstruction Removal	6300	LF	8.90	56,070
3	Seeding, Sprigging and Mulching	2	AC	\$200.00	\$400
4					\$0
5					\$0

Note: Estimated cost of debris removal includes labor and hauling of material to landfill.

Total Estimated Construction Cost

\$108,400

Performance Time:

Production Rate

Segment Length

Production Time

Contract Time

1000 Ft/Day

3,500 Ft

3.50 Days

4 Days

Estimated Cost of Equipment with Labor

(Per Mike Kennedy's Email 09/22/04)

Description of Work: Heavy Access Problems; however use Av. Medium Cost/LF

Cost per LF

\$28.00

8.90

Estimated Cost of Seeding with Labor

Segment Length	Segment Width	No. of Segment	Acres	Cost per Ac	Total Cost
3,500 Ft.	15 Ft.	2	2	\$200	\$400

Comments:

Selected alternative is to remove debris from ~~one~~ <sup>Both</sup> side of channel and haul debris away from flood plain.

Access from east side of channel from upper end to Goos Rd. Access segments along Campfire Rd from Campfire Rd.

Access segment south of Campfire Rd to d/s from east side of channel. Use existing access path between Cascio Rd and 500' north of Goos Rd.

CHANGES BY BAS 12/15/05 - APPLY "HEAVY" EBI TO 3,500 FT LENGTH.